

Cell Line Authentication Service STR Profile Report

Sample Submitted By: Dr. Xifeng Lu
Shenzhen University
Email Address: lxfstart@163.com
Sales Order: 190417F
Cell Line Designation: Huh7
Date Sample Received: Apr 17th, 2019
Report Date: Apr 17th, 2019

Methodology: Nineteen short tandem repeat (STR) loci plus the gender determining locus, Amelogenin, were amplified using the commercially available EX20 Kit from AGCU. The cell line sample was processed using the ABI Prism® 3130 XL Genetic Analyzer. Data were analyzed using GeneMapper® ID-X v1.5 software (Applied Biosystems). Appropriate positive and negative controls were run and confirmed for each sample submitted.

Data Interpretation: Cell lines were authenticated using Short Tandem Repeat (STR) analysis as described in 2012 in ANSI Standard (ASN-0002) by the ATCC Standards Development Organization (SDO) and in Capes-Davis et al., Match criteria for human cell line authentication: Where do we draw the line? Int J Cancer. 2013;132(11):2510-9.

GTB™ performs STR Profiling following ISO 9001:2008 and ISO/IEC 17025:2005 quality standards.

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NOTE: According to the recommendations of *IJC* on cell line authentication, the report is valid for four years since the issue date.

Technical Questions?
GTB Technical Support
+86-512-67486171
service@jsdna.org
Section 505, Yixin BLD
SIP, Suzhou, 215123
Jiangsu, P.R. China

Ordering Questions?
order@jsdna.org
GTB Corporation
+86-512-62806339
Section 303, Yixin BLD
SIP, Suzhou, 215123
Jiangsu, P.R. China



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Test Results for Submitted Sample		DSMZ Reference Database Profile	
Loci	Query Profile: Huh7	Database Profile: Huh7	
Amelogenin	X	X	
D3S1358	15		
D13S317	10 11	10 11	
D7S820	11	11	
D16S539	10	10	
Penta E	11		
TPOX	8 11	8 11	
TH01	7	7	
D2S1338	19		
CSF1PO	11	11	
Penta D	12		
D19S433	13 14		
vWA	16 18	16 18	
D21S11	30		
D18S51	15		
D6S1043	13 15		
D8S1179	14 15		
D5S818	12	12	
D12S391	20 21		
FGA	22		

The allele match algorithm compares the 8 core loci plus amelogenin only, even though alleles from all loci will be reported when available.

Note: Loci highlighted in grey (8 core STR loci plus Amelogenin) can be made public to verify cell identity. In order to protect the identity of the donor, **please do not publish** the allele calls from all the STR loci tested.

Explanation of Test Results

Cell lines with $\geq 80\%$ match are considered to be related; i.e., derived from a common ancestry. Cell lines with between a 55% to 80% match require further profiling for authentication of relatedness.

- ☐ The submitted sample profile is human, but not a match for any profile in the DSMZ STR database.
- ☒ The submitted profile is an exact match for the following human cell line(s) in the DSMZ STR database (8 core loci plus Amelogenin): Huh7
- ☐ The submitted profile is similar to the following DSMZ human cell line(s):

e-Signature Technician:



e-Signature Reviewer:



More information

Addendum: Electropherogram for the customer's sample set 1 of 1

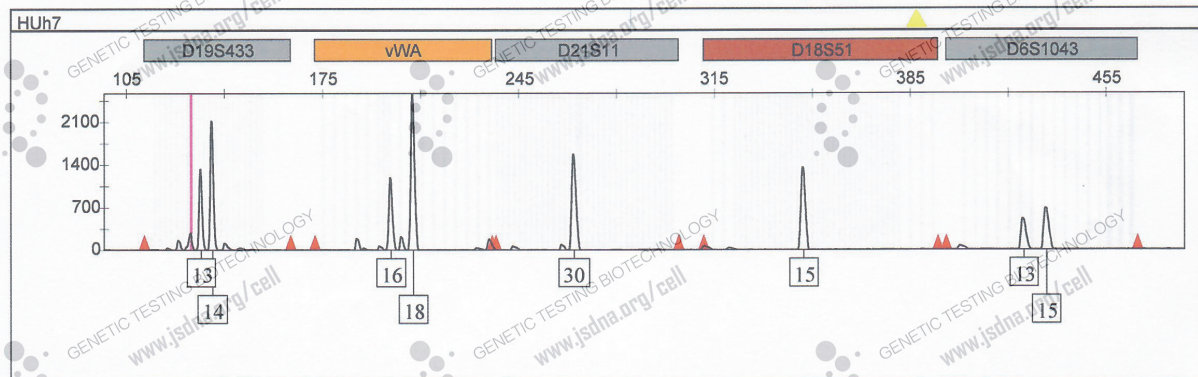
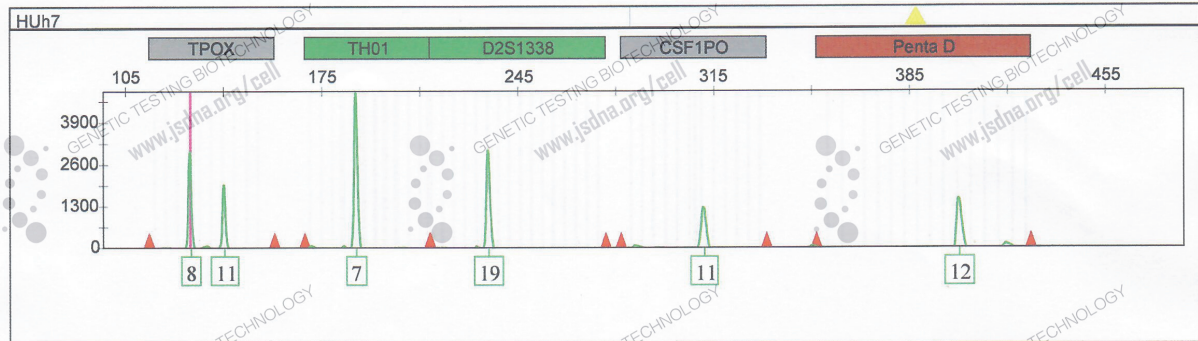
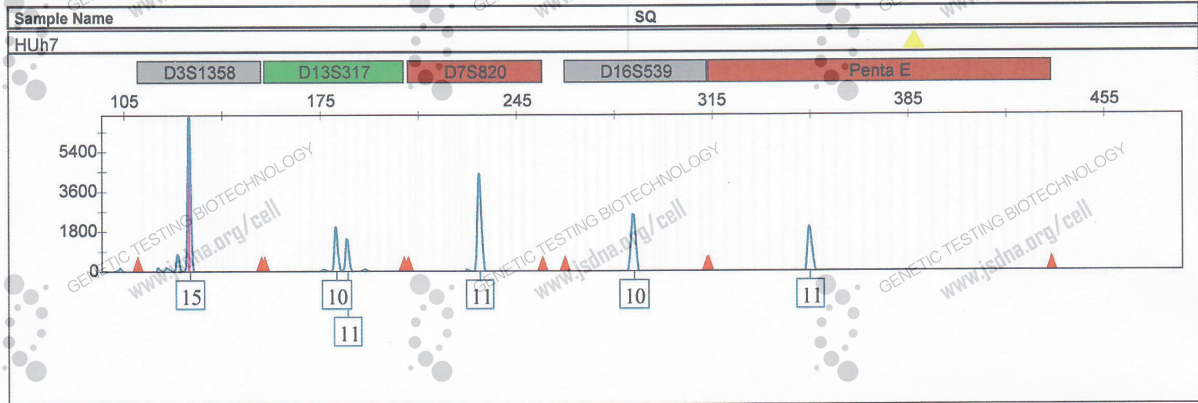


GENETIC TESTING BIOTECHNOLOGY

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Applied
Biosystems
GeneMapper® ID-X 1.5

Project: 190417



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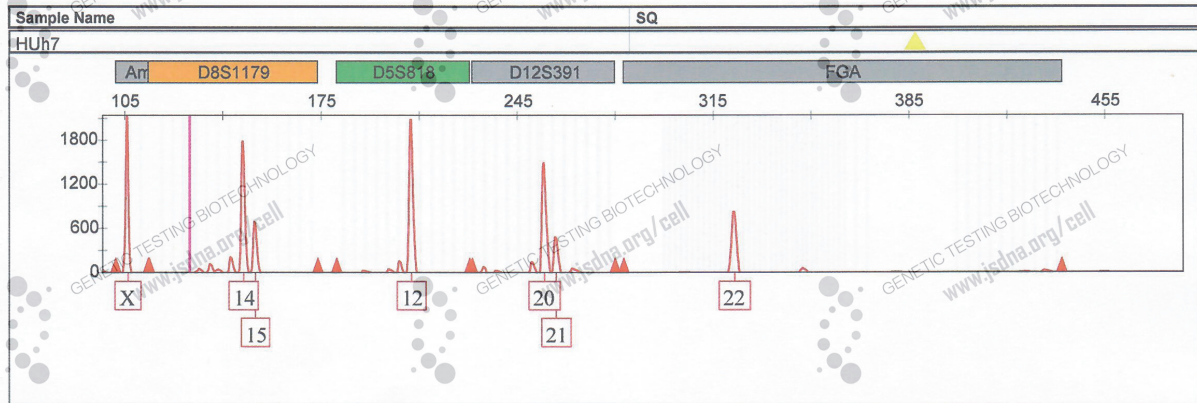


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